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United States Department of Agriculture
Agricultural Research Service
Plant Pest Control Division, Western Region

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C & R-PREP.

+ BEET LEAFHOPPER SURVEY - ^{desert} DESERT AREAS OF SOUTHERN UTAH AND NEVADA,
SOUTHWESTERN CALIFORNIA AND CENTRAL ARIZONA
JANUARY 27 - FEBRUARY 8, 1964 X

Surveys just completed by the Plant Pest Control Division personnel in the desert areas named indicate that if favorable conditions prevail, beet leafhopper spring movement from these desert breeding grounds to cultivated districts of southwestern California, central Arizona, southern Nevada, southern Utah, and western Colorado is expected to be heavy. The movement to central and northern Utah is expected to be moderate to heavy.

The southern desert breeding grounds, comprising approximately 50,000 square miles of potential weed host area, was favored with extensive fall rains resulting in widespread host development on an estimated 36,350 square miles. However, scant winter rainfall caused stress on host plants in a few areas. This was especially noticeable south of the 34th parallel.

Host plants were found at 70.3% of the 10-mile interval sampling points.

The average number of beet leafhoppers found in areas where host plants were present was 0.15 per square foot.

This report covers only the beet leafhopper situation as found in the area surveyed. It does not have reference to populations that may have overwintered in local breeding areas in northern and eastern Utah and in western Colorado and Nevada.

Prepared at
Oakland, California

Reserve

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UNITED STATES DEPARTMENT OF AGRICULTURE
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March 11, 1964

To: Cooperators

From: Jim R. Dutton, Regional Supervisor

Subject: Survey ^{1st} Second 1964 spring beet leafhopper survey, desert
areas of central Arizona, southeastern California,
southern Nevada and Utah

The second beet leafhopper survey was made in the southern desert breeding grounds February 24 to March 6, 1964. Data obtained indicates that further population buildups will occur and that beet leafhopper movement is expected to be heavy to cultivated districts of central Arizona, southeastern California, southern Nevada, southern and eastern Utah, and western Colorado. Movement to central and northern Utah and western Nevada is expected to be moderate to heavy.

Host plants were hardened, drying or dead in most areas lying south of the 34th parallel, but were in fair to good condition at the majority of stops with widespread host cover north of the 34th parallel. Precipitation occurring the last week of February and early March should help sustain host plants particularly in those areas north of the 34th parallel.

Jim R. Dutton.

AUG 8 1964

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